

The uniqueness of the construction and solar application combines innovative engineering and building design, environmental and solar considerations in an integrated architectural entity that responds to the community, the river, financial considerations and creates an exciting environment for the inhabitants.

Prefabrication Solar Housing

New Orleans

Louisiana

The building envelope reflects a totally integrated modular, spatial and solar design that forms the architecture both inside and out.

The demountable panels will allow interior maintenance, replacement of damaged panels and a wide variety of panel systems and floor plans (both one and two stories).

The exterior panels are hurricane resistant glass or solar panels on the south, skylights and precast concrete along with louvered wood sliding doors for sun control and hurricane protection on the North, East and West.

The final design presented for the housing uses 268 modules forming 160 efficiency one, two and three bedroom housing units.

The structure will withstand 160 mph winds.

As the dwelling units step back, the resulting enclosure creates an interior sky lit courtyard from which the residents will enter their units and use as a central landscaped meeting place year round. In the summer months, the atrium acts as a thermal chimney through stratification and a stack effect. In addition, the inhabitants will have exciting views to an active interior landscaped court, exterior cityscape, and the Mississippi River.

